

# Electronic Filing System (EFS) Data

## Electronic Patent Application Submission

### USPTO Use Only

EFS ID: 16276  
Application ID: 10064374  
Title of Invention: LIQUID CRYSTAL DISPLAY DEVICE  
First Named Inventor: Kazuo Sekiya  
Domestic/Foreign Application: Domestic Application  
Filing Date: null  
Effective Receipt Date: 2002-07-08  
Submission Type: Utility Patent Filing  
Filing Type: new-utility  
Confirmation Number: 0  
Attorney Docket Number: JP920010116  
Digital Certificate Holder: cn=Derek Jennings, ou=Registered Attorneys, ou=Patent and Trademark Office, ou=Department of Commerce, o=U.S. Government, c=US  
Certificate Message Digest: CT7wEyCsLHoOLueXFVK6mQ==  
Total Fees Authorized: \$1160.0  
Payment Category: DA - Deposit Account  
Deposit Account Number: 90468  
Deposit Account Name: Derek S. Jennings



# TRANSMITTAL FORM



Electronic Version 1.0.3

Stylesheet Version: 1.0

Submission Type: Utility  
Patent Filing

Attorney Docket  
Number:

JP920010116

## LIQUID CRYSTAL DISPLAY DEVICE

First Named Inventor: Kazuo Sekiya

### SUBMITTED BY

Name: Mr. Derek S. Jennings  
Registration Number: 41,473  
Electronic Signature Mark: Derek S. Jennings  
Date Signed: 20020708

*I certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.*

*I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.*

### Attached Files:

declaration	JP920010116US1dec1.tif
declaration	JP920010116US1dec2.tif
specification	JP920010116US1.xml
ibid-transmittal	JP920010116US1apds.xml
fee-transmittal	JP920010116US1fee.xml

**Attached Image File(s):**

JP920010116US1dec1.tif

JP920010116US1dec2.tif

**Comments:**

The Title of the Specification is "Liquid Crystal Display Device".

Docket No. JP92001011

**DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which patent is sought on the invention entitled:

LIQUID CRYSTAL DISPLAY DEVICE

the specification of which (check one)

X is attached hereto.

\_\_\_\_\_ was filed on \_\_\_\_\_ as United States Application Number \_\_\_\_\_

or PCT International Application Number \_\_\_\_\_

and was amended on \_\_\_\_\_ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, in the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application accordance with Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, '119(a)-(d) or '365(b) of any foreign application(s) for patent or inventor's certificate, or '365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified by checking the box, any foreign application for patent or inventor's certificate, or PCT International application, having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)		Priority
<u>2001-207112</u>	<u>JAPAN</u>	<u>06/JULY/2001</u>
(Number)	(Country)	(Day/Month/Year Filed)
		<u>X</u> Yes
		Yes
		Yes

I hereby claim the benefit under 35 U.S.C. '119(e) of any United States provisional application(s) listed

(Application Number)	(Filing Date)

I hereby claim the benefit under 35 U.S.C. '120 of any United States Application(s), or '365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of the claims of this application is not disclosed in the prior United States, or PCT International application in the manner provided by the first paragraph of 35 U.S.C. '112, I acknowledge the duty to disclose information material to the patentability of this application as defined in 37 CFR '1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made in information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that willful false statements may jeopardize the validity of the application or any patent issued thereon.

**POWER OF ATTORNEY:** As a named inventor I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and registration number).

Manny W. Schecter (Reg. 31,722), Lauren C. Bruzzone (Reg. 35,082), Christopher A. Hughes (Reg. 26,914), John E. Hoel (Reg. 26,279), Joseph C. Redmond, Jr. (Reg. 18,753), Stephen C. Kaufman (Reg. 29,551), Robert M. Trepp (Reg. 25,933), Louis P. Herzberg (Reg. 41,500), Daniel P. Morris (Reg. 32,053), Paul J. Otterstedt (Reg. 37,411), Louis J. Percello (Reg. 33,206), Douglas W. Camero (Reg. 31,596), Marian Underweiser (Reg. 46,134), Richard M. Ludwin (Reg. 33,010), Derek S. Jennings (Reg. No. 41,473), Gail Zarick (Reg. 43,303) and Timothy M. Farrell (Reg. No. 37,321).

Docket No. JP92001011

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Send Correspondence to: Derek S. Jennings, Intellectual Property Law Dept.

IBM Corporation, P.O. Box 218, Yorktown Heights, New York 10598

Direct Telephone Calls to: (name and telephone number) Derek S. Jennings - (914) 945-2144

Kazuo Sekiya  
Full name of sole or first inventor

Inventor's Signature \_\_\_\_\_ Date \_\_\_\_\_

3-29-8-302 Hikawadai, Nerima-ku, Tokyo-to 179-0084, Japan  
Residence

Japan  
Citizenship

Same as above.  
Post Office Address

Hajime Nakamura  
Full name of second joint-inventor, if any

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

3-2-12 Chigasakihigash, Tuzuki-ku, Yokoham-shi 224-0033, Japan  
Residence

Japan  
Citizenship

Same as above.  
Post Office Address

# FEE TRANSMITTAL

Electronic Version 1.1.0

Stylesheet Version: 1.0

*Patent fees are subject to annual revisions on or about October 1st of each year.*

Large Entity

**TOTAL FEES AUTHORIZED: \$ 1160**

The commissioner is hereby authorized to charge indicated processing and/or publication fees and credit any overpayments to:

Deposit Account Number: 09-0468



Deposit Account Name: IBM

Charge Any Additional Fee Required Under 37 C.F.R. Sections 1.16 and 1.17.

Charge Assignment Fees Required Under 37 C.F.R. Section 1.21 (h).

## SUBMITTED BY

Authorized Name: Derek S. Jennings

Electronic Signature Mark: Derek S. Jennings

Date Signed: 20020708

## BASIC FILING FEE

Fee Description	Fee Code	Fee Paid
Utility Filing Fee	101	\$ 740

Subtotal For Basic Filing Fee: \$ 740

## EXTRA CLAIM FEES

	Fee Code	Fee	Extra Claims	Fee Paid
Total Claims: 17	103	\$ 18	0	\$ 0
Independent Claims: 8	102	\$ 84	5	\$ 420

$$-\frac{\partial}{\partial x_{\mu}} \left( \frac{\partial \mathcal{L}}{\partial \psi^{\mu}} \right) + \frac{\partial \mathcal{L}}{\partial \psi^{\mu}} = 0 \quad \text{for } \mu = 1, 2, \dots, n \quad (1)$$

Subtotal For Extra Claims Fees: \$ 420